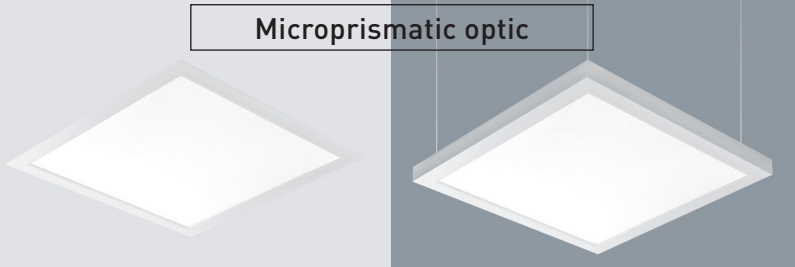
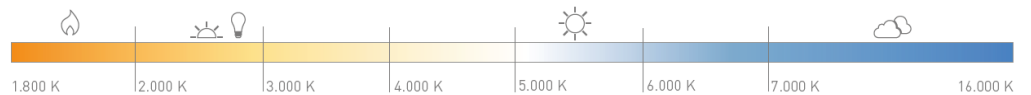


- Perceptible increase in performance ↑
- Stable health ↑
- Greater vitality over the day ↑
- Improved concentration ↑



PI-LED® FLAT PANEL



Tunable white
1,800K - 16,000K



Brightness dimmable
1% - 100%



RGB/CIE-xy adjustable
Colour points and sequences



Biorhythmic lighting
Vitalisation and recreation



2 Control modes
DALI DT8, ZigBee 3.0



Excellent CRI
CRI > 90

TECHNICAL DATA

Luminous source	PI-LED Edge Light Modules (edge injection)
Supply voltage	230 V AC
Typ. power	50 W
Luminous flux	4,100 lm
CRI	95
Efficiency	82 lm/W
Control mode	ZigBee 3.0, DALI DT8
Dimmable	1% - 100% Modular Dimming* / Camera-Ready*
CCT and colour control	1,800 - 16,000K / adjustable CIE-xy-colours and RGB colours
Tests / approvals	CE / RoHS conformity
Dimensions	620 mm x 620 mm x 48 mm (with driver box on backplate)
	595 mm x 595 mm x 48 mm (with driver box on backplate)
	14 mm frame height
Weight	6.8 kg (including packaging)
Lifetime	50,000h L80B10
Protection class and type	I / IP20
Mounting	recessed / surface mounted / suspended

*According to IEEE 1789-2015 (valid for all dimming levels, CCT and colour settings)



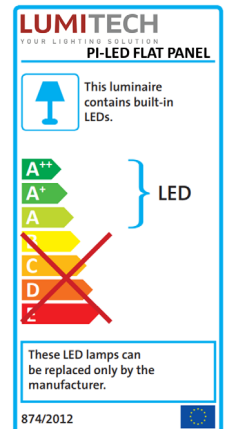
PI-LED® FLAT PANEL

ORDERING DATA AND TECHNICAL DATA - PI-LED FLAT PANEL

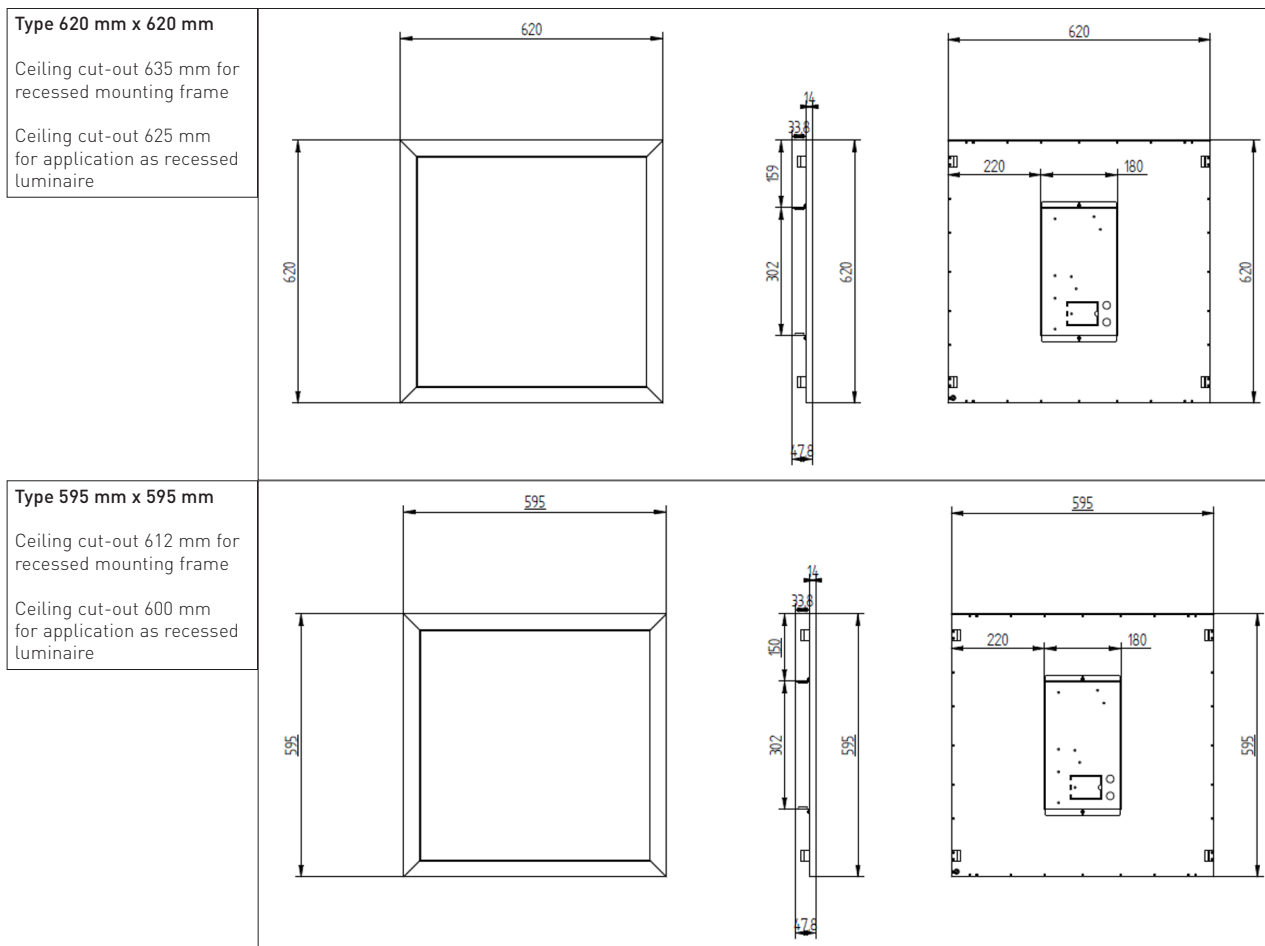
Type	Description	Control mode	Dimensions
PI-LED-Panel-595-MP-W-DA-2.0	PI-LED Flat Panel / DALI DT8 / 595x595mm / White	DALI DT8	595mm x 595mm
PI-LED-Panel-595-MP-W-NZ-2.0	PI-LED Flat Panel / NeoLink-ZigBee / 595x595mm / White	ZigBee 3.0	595mm x 595mm
PI-LED-Panel-620-MP-W-DA-2.0	PI-LED Flat Panel / DALI DT8 / 620x620mm / White	DALI DT8	620mm x 620mm
PI-LED-Panel-620-MP-W-NZ-2.0	PI-LED Flat Panel / NeoLink-ZigBee / 620x620mm / White	ZigBee 3.0	620mm x 620mm

ORDERING DATA AND TECHNICAL DATA - Accessories

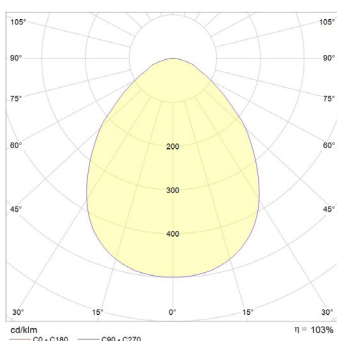
Type	Description
LTZ-1751-01-00	Pendant Cord PI-LED Panel
LTZ-1751-01-02	Mounting frame 595x595x60mm PI-LED Panel (surface mounted)
LTZ-1751-01-03	Mounting frame 620x620x60mm PI-LED Panel (surface mounted)
LTZ-1751-01-04	Mounting frame 595x595x90mm PI-LED Panel (recessed)
LTZ-1751-01-04	Mounting frame 620x620x90mm PI-LED Panel (recessed)



DIMENSIONS



LIGHT DISTRIBUTION

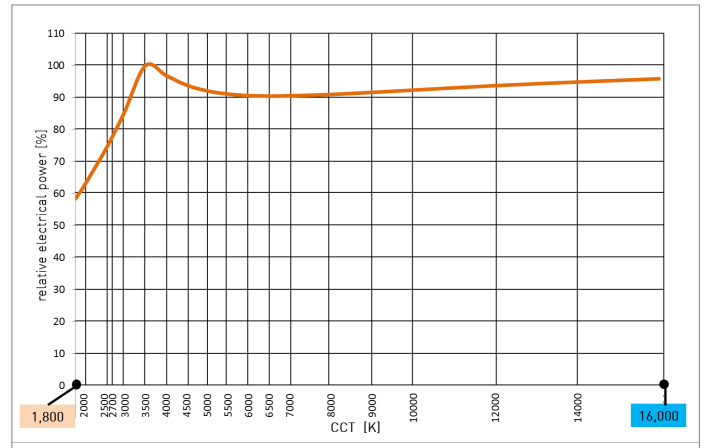
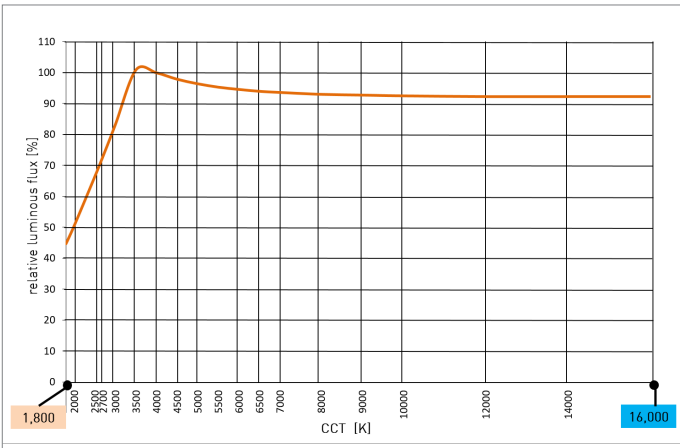
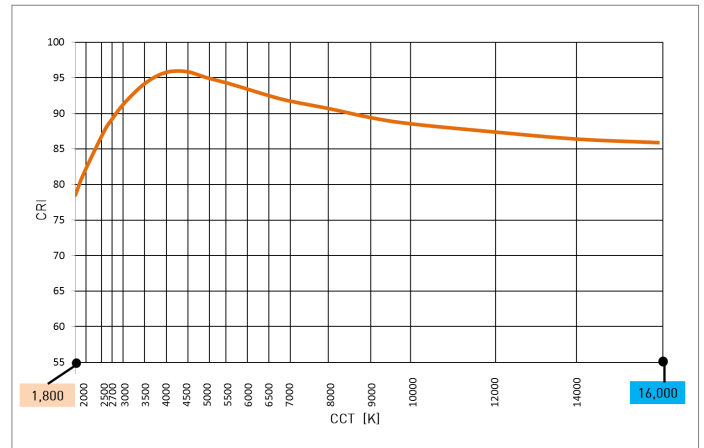
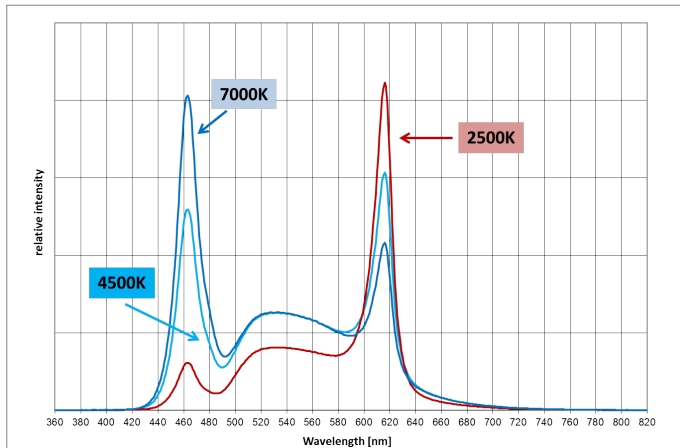


Notes:

- Unless otherwise specified, all values are based on 4,000 K in the steady state and an ambient temperature of 25°C.
- Tolerance ranges: optical data +/-15% | electrical data +/-15%
- Photometrical data according to CIE1931
- Permissible operating temperature +10°C to +35°C.
- All diagrams shown in this document show typical curves and not the exact behaviour of single luminaires.

PI-LED® FLAT PANEL

PHOTOMETRICAL PROPERTIES



CCT [K]	general data			visual data		melanopic values (relevant for melanopic light design)			
	CRI	CIE-x	CIE-y	Lichtstrom [lm]	Effizienz [lm/W]	alpha [smel]	alpha[smel] x correction factor 1.103	Luminous flux [smel, d65] in %	Efficiency [smel, d65] in lm/W
1,800	78.5	0.5492	0.4082	1,835 / 45%	60.9	0.258	0.258	13	19
2,000	81.5	0.5268	0.4133	2,075 / 51%	64.7	0.297	0.328	17	23
2,500	87.5	0.4770	0.4137	2,725 / 66%	72.2	0.386	0.426	28	33
2,700	89.3	0.4599	0.4106	2,995 / 73%	74.5	0.419	0.462	34	37
3,000	91.5	0.4369	0.4041	3,415 / 83%	77.2	0.467	0.515	43	43
3,500	94.3	0.4053	0.3907	4,140 / 101%	80.2	0.540	0.596	60	52
4,000	95.8	0.3804	0.3767	4,100 / 100%	82	0.606	0.668	67	59
4,500	95.9	0.3608	0.3635	4,015 / 98%	82.9	0.665	0.733	72	66
5,000	95.0	0.3451	0.3516	3,955 / 96%	83.2	0.718	0.792	76	71
5,500	94.3	0.3324	0.3410	3,910 / 95%	83.2	0.766	0.845	81	76
6,000	93.4	0.3221	0.3318	3,880 / 95%	83	0.808	0.891	84	80
6,500	92.5	0.3135	0.3236	3,855 / 94%	82.8	0.846	0.933	88	84
7,000	91.8	0.3064	0.3165	3,840 / 94%	82.2	0.879	0.970	91	86
8,000	90.6	0.2952	0.3048	3,815 / 93%	81.3	0.937	1.034	96	91
9,000	89.4	0.2869	0.2956	3,805 / 93%	80.5	0.985	1.086	101	95
10,000	88.5	0.2806	0.2883	3,795 / 93%	79.7	1.024	1.129	105	97
12,000	87.4	0.2718	0.2776	3,785 / 92%	78.3	1.083	1.195	110	101
14,000	86.4	0.2659	0.2702	3,785 / 92%	77.3	1.127	1.243	115	104
16,000	85.9	0.2618	0.2648	3,785 / 92%	76.5	1.160	1.279	118	106

Remark:

The coefficient alpha[smel] describes the melanopic effectiveness of the light source on humans and their circadian rhythm. To give the natural human biorhythm the best possible support, the melatonin production can be minimized by higher values of alpha[smel] throughout the day and stimulated by lower values in the evening. PI-LED enables the implementation of an illumination that is not only visually but also biologically/melanopic effective. For a standard-conforming lighting design, Lumitech recommends the document DIN SPEC 5031-100 to be taken as a basis.